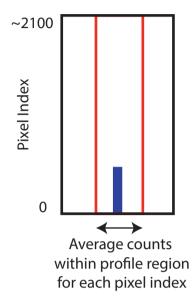


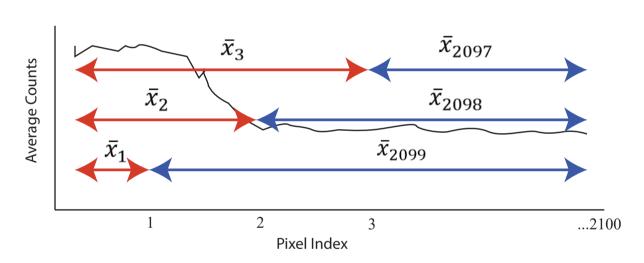
Red box represents the profile region chosen in profile_vs_file_index.ipynb Blue represents water Black represents sample

Step 1



Output the average counts over profile region versus pixel index with associated time stamp for each image.

Step 2
For each image take a "sliding" average of the counts.



Where:

$$(\bar{x}_1 - \bar{x}_{2099})^2 = P_1$$
$$(\bar{x}_2 - \bar{x}_{2098})^2 = P_2$$
$$(\bar{x}_3 - \bar{x}_{2097})^2 = P_3$$

The Water Peak Height for each image is defined as the Pixel Index at which $\,P_{\!n}\,\,$ is the highest

